

Supporting your growth with our expertise

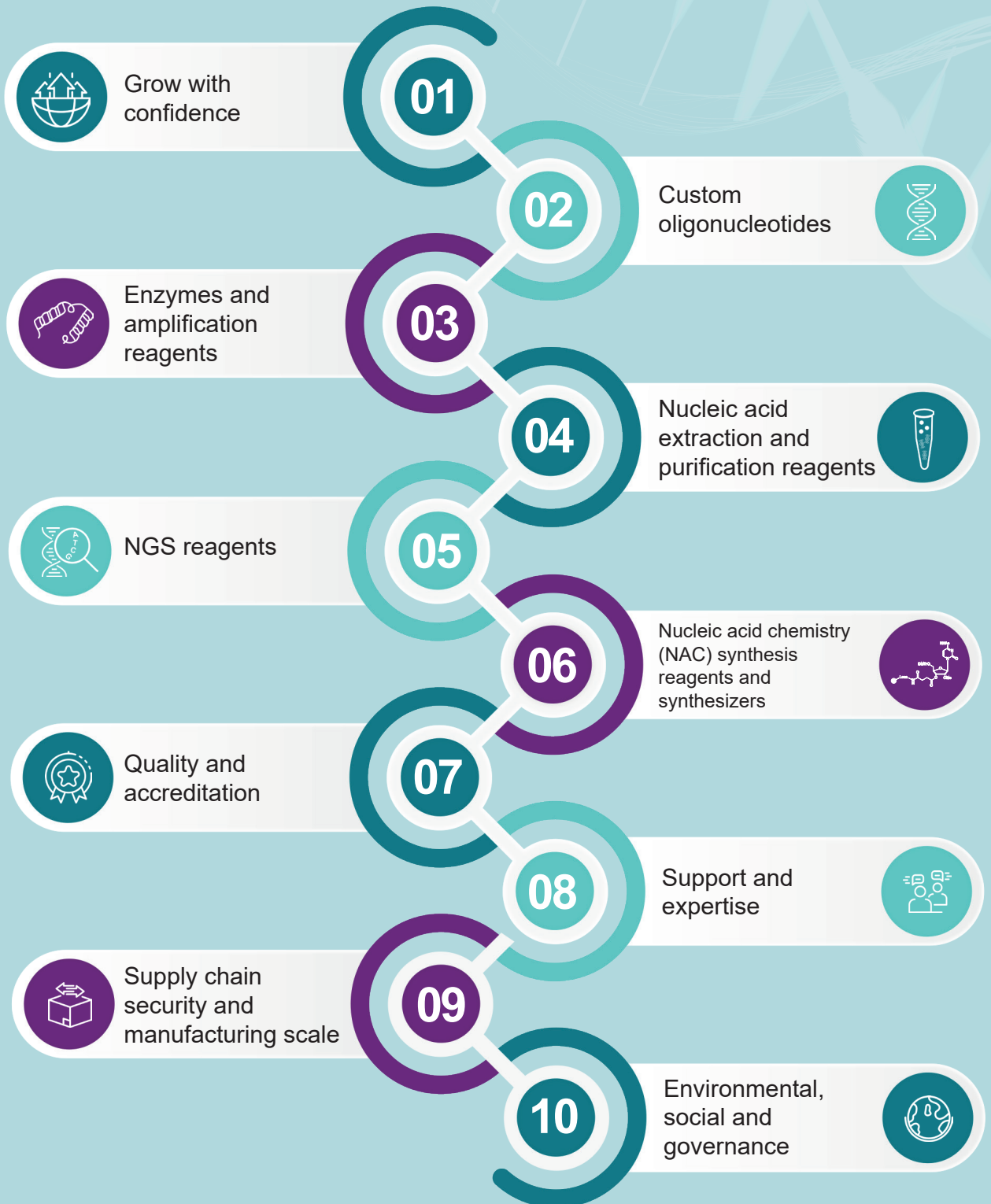


Supporting innovators in molecular diagnostics with mission-critical bulk, OEM and custom components for test development.

For research use only.
Not for use in diagnostic procedures.

BIOSEARCH™
TECHNOLOGIES
GENOMIC ANALYSIS BY LGC

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Grow with confidence



We know that expanding your business is challenging.

Quality of components, reliability of supply chain, R&D and commercialisation timelines plus cost effectiveness all contribute to your test's success. Choosing an expert custom and OEM partner with experience in supporting development through to commercial scale-up enables you to commercialise with confidence.

With over 35 years of experience, we are a trusted partner to top molecular diagnostics (MDx) manufacturers worldwide. Our manufacturing sites across multiple continents, as well as global warehousing and distribution facilities can support you wherever you are located.

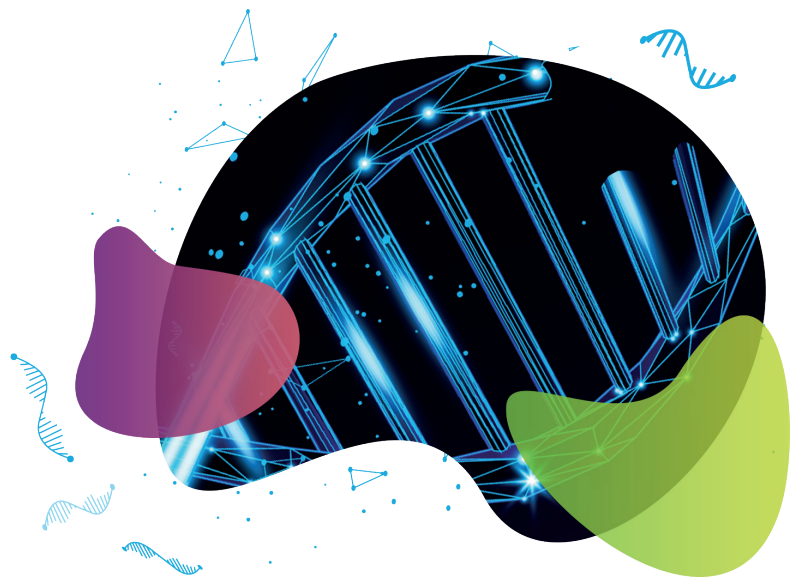
We provide expert guidance throughout the development and lifetime of your tests. Focus on growing your business with confidence by partnering with LGC Biosearch Technologies™.

35+ years of
experience

**ISO
certified** ISO 13485
ISO 9001

02

Custom oligonucleotides



We have optimised oligonucleotide manufacturing for efficient synthesis at scales that take you from development to commercialisation with the same great quality. By producing many of our own raw materials, including specialty amidites and modifications, and synthesis columns, we maintain excellent supply chain security and quality.

- Scalable production from nmols to grams
- Wide array of modifications, including Black Hole Quencher (BHQ) dyes and specialty reagents
- Fluorophores and quenchers spanning across the spectrum

Manufacturing out of 203,233 sqft (18,881 m²) in 3 geographic sites, including 2 in North America (California) and one in Mainland Europe (Denmark).

“We have been very pleased with the quality and consistency of the fluorescent probes of BTI (or LGC), which use the Black Hole Quencher technology and the proprietary fluophores CFO, CFR Q670 and Q705.”

Pieter Vos, CEO and CTO, Check-Points

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Enzymes and amplification reagents



We support a wide range of applications from PCR to isothermal amplification, whole genome amplification and more. Our RapiDxFire range was designed for MDx assay development.

- GPR-labelled, lyophilisation compatible, REACH-compliant options
- Up to 15kg per batch and 10M KU, options to produce higher scales on project-to-project basis
- Custom enzymes and buffer formulations available
- Recently expanded enzyme manufacturing capacity ensuring reliable supply chain regardless of demand.

“RapiDxFire is truly one of a kind product. Since the day it arrived, we started getting beautiful RT-PCR reactions with clean and sharp bands that, in most cases, looked better than other competitors. What we like the most is its thermostability, which makes it capable of preparing one-step reactions quickly.”

Carlos Fabian Fores-Jasso, Instituto Nacional de Medicina Genomica

[Lex Diagnostics](#)

[Select Science webinar](#)

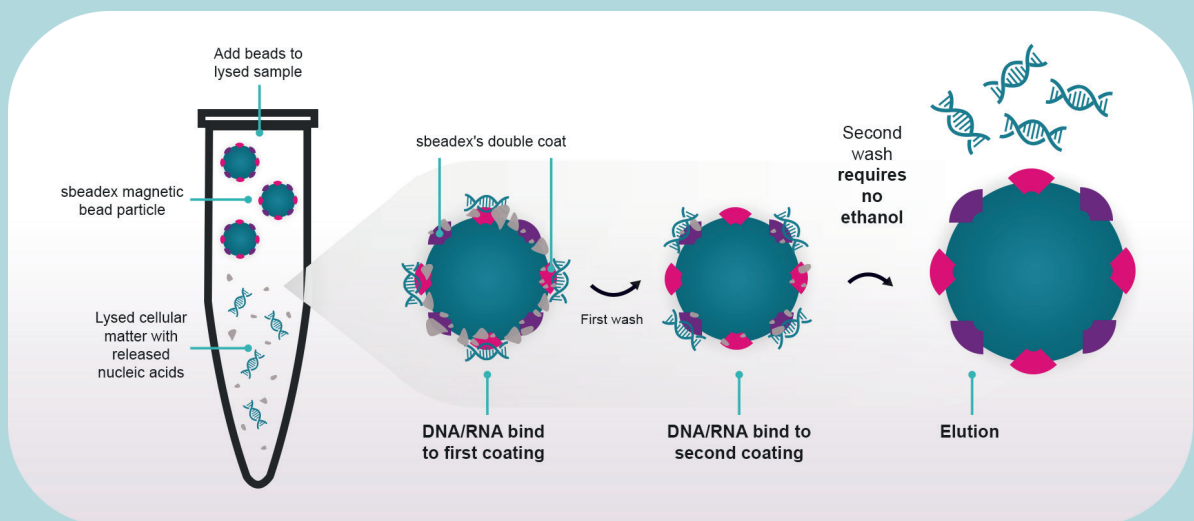
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Nucleic acid extraction and purification reagents



From our sbeadex™ magnetic bead-based solutions for demanding applications such as NGS, to direct from 'lysis-to-assay' options for faster RT-PCR and PCR assays, we can help. We have recently expanded our magnetic bead production and storage capacity by over 1000%, so you can be confident we have the capacity to keep up with significant increases in demand.

- Nucleic acid isolation from many sample types including blood, swabs, and saliva
- Standalone, bulk and customised options
- Optimised protocols for different sample types and automation workflows
- Our production sites are ISO-certified and also offer nucleic acid extraction services



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NGS reagents

Our dedicated next generation sequencing (NGS) offering includes components and complete kits combined with our flexible customisation, enabling us to meet your needs in many areas including:

- High quality enzymes
- DNA fragment library kits ready for OEM and use in multiple applications from WGS to exome and other targeted sequencing applications
- Magnetic clean-up and size selection beads
- 'Off the shelf', ready-to-go and custom single-cell RNA-seq beads
- NGS-specific oligonucleotides - please enquire about specific capabilities

“One of the enzymes LGC is providing for incorporation into our kits shows distinct quality improvements over other components we’ve tested, which has allowed us to support our customers in further improving their outcomes.”

Matt Girvan, General Manager, Tecan Genomics

[Tecan case study](#)



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Nucleic acid chemistry (NAC) synthesis reagents and synthesizers



We provide you with a convenient and single point of contact for end-to-end support for all your in-house oligonucleotide synthesis needs. Our multi-site manufacturing is situated in five geographic locations across the UK, North America and mainland Europe.

- Unmodified CPG supports for small to large-scale oligo synthesis
- Modified phosphoramidites and solid supports, including linkers, spacers and Click reagents
- Common and proprietary fluorophores (including Quasar™ and CAL Fluor™) and quenchers (including BHQ™ and BBQ™)
- MerMade™ synthesizers



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Quality and accreditation

Starting assay design with high-quality, consistent components helps to deliver a robust and consistently performing assay. Our certified quality systems provide the reassurance on our components that you expect from a mature, global genomics operation.

We have established global centres of excellence in USA, Denmark, and Germany. Our sites are certified to industry standards including ISO 9001 or ISO 13485 and provide traceability and documentation for all our products according to the relevant ISO standards and Quality Agreements.

Your specific requirements can be addressed as part of mutually agreed Supply and Quality Agreements, in which provisions including auditing rights, specific quality control testing or customised documentation and more can be included to support your regulatory filing needs.

Product flexibility and organisational agility

We are a supplier that you can rely on to meet your changing requirements, whether it is a unique component for a new assay or a custom formulation. Biosearch Technologies offer custom assay development, bulk supply of components or raw materials, custom packaging, and private label OEM manufacturing.

We provide scalable solutions with the possibility of specialised formulations and flexible production options, including reserving product batches and retaining lots in many cases. Contact us for more information on our customisable volumes, packaging, and labelling options.

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Support and expertise

We have a long history of supporting customers in PCR. We developed Black Hole Quenchers, CAL Fluor, Quasar and Pulsar dyes, sbeadex nucleic acid purification kits and also the RapidDxFire suite of products for PCR amplification. By partnering with us you take advantage of our established expertise, reflected in our proprietary probes, dyes and enzymes optimised for cross compatibility.

We work with you from design through to feasibility and pilot studies, verification, validation and commercialisation; helping to enable smooth technology transfer from R&D to production, preventing issues at scale up and helping you get to market faster.

All projects are managed by experienced Account Managers, as well as a team of science and manufacturing experts who provide technical consultations from the beginning of product development to ensure your success.



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Supply chain security and manufacturing scale

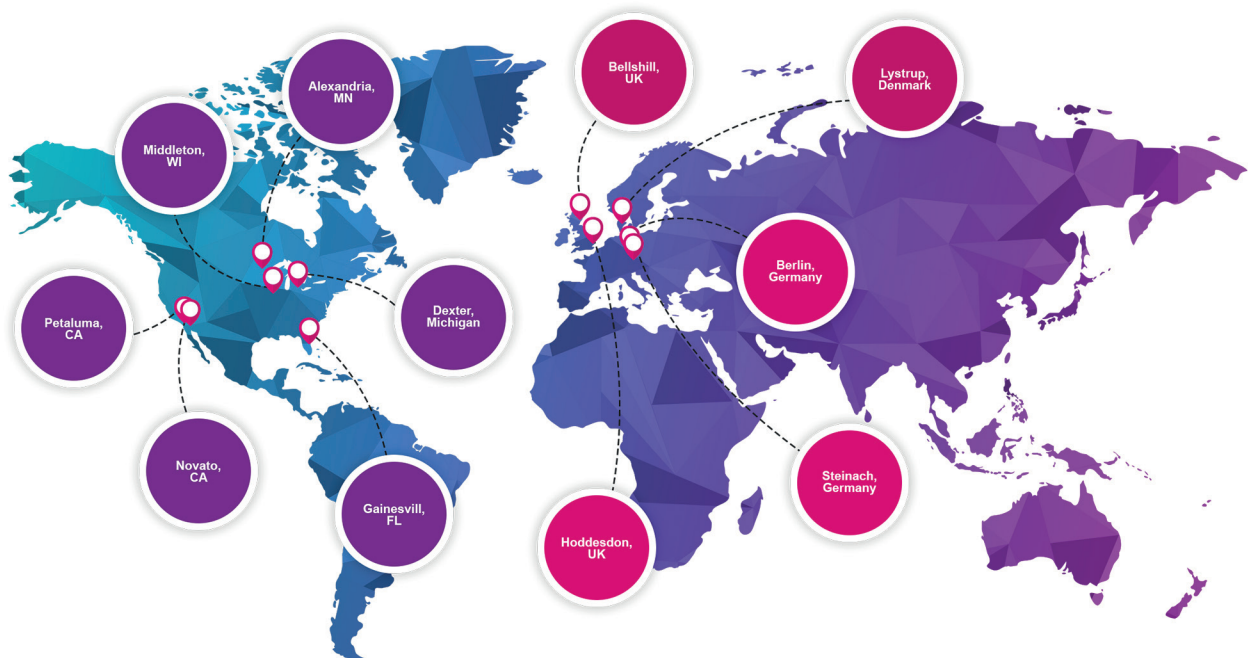
A reliable and flexible supply chain is critical to meet the needs of a dynamic market with demand fluctuations.

Biosearch Technologies has a reliable supply chain model spanning 11 manufacturing sites in 4 countries, ensuring consistency and cost-effectiveness even at larger production scales.

With decades of experience in scaling up and vertically integrated key areas of the business, we provide faster turnaround times and increased cost control for greater supply chain security.

“We’ve chosen to work with LGC for our high volume, custom enzyme needs, and they’ve proven to be a reliable supplier of these critical components. The custom enzymes stand out in terms of quality and consistent product performance.”

Abe Oommen, President, MatMaCorp Inc



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Environmental, social and governance

We are committed to addressing the environmental, social and governance (ESG) topics which matter most to our business, our customers and wider issues in society. We deliver by building on what we are already doing, for instance:

- Reducing energy usage and increasing the % of electricity which comes from renewable sources – which is currently 50% with the goal to increase this to 80% by 2025
- Providing components with lower environmental impacts e.g. consolidated quality controls which reduce waste; instrumentation that uses less plastic and energy
- Supporting our customers to deliver societal and environment impact e.g. to develop life changing therapies and improve sustainable crops
- Creating family-friendly workplaces with our Berlin site named the top 'family-friendly workplace' in the southeast area of the city for the past 3 years.

Our latest ESG report, which uses the Global Reporting Initiative (GRI) Standards, an internationally recognised best practice framework for ESG reporting, can be found on our website.

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